# SCIENCE ABSTRACTS.

PHYSICS AND ELECTRICAL ENGINEERING.

VOL IV.

1901.

Issued under the direction of—

**THE INSTITUTION OF ELECTRICAL ENGINEERS.** | **THE PHYSICAL SOCIETY OF LONDON.**

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# LIST OF JOURNALS.

*In 1901 Abstracts were made from the following Journals. An asterisk (*) indicates that the Journals so marked were received only occasionally.*

| Abbreviation. | Full Title. | Price. | Publishers, or Agents. |
|---|---|---|---|
| Acad. Sci. Cracovie, Bull. | Bulletin de l'Académie des Sciences de Cracovie | Single copy, 90 centimes; 8 francs per annum | Librairie de la Société anonyme polonaise. Cracovie |
| Acad. Sci. St. Pétersbourg, Bull. | Bulletin de l'Académie Impériale des Sciences de St. Pétersbourg | Single copy, 2 marks 50 pfennigs | Published by the Academy |
| Acad. Sci. St. Pétersbourg, Mém. | Mémoires de l'Académie Impériale des Sciences de St. Pétersbourg | Single copy, 3 marks | Published by the Academy |
| Accad. Lincei, Atti | Atti della R. Accademia dei Lincei, Roma | — | Published by the Academy |
| Accad. Sci. Torino, Atti | Atti della R. Accademia delle Scienze di Torino | — | Published by the Academy |
| Akad. Wiss. Wien, Sitz. Ber. | Sitzungsberichte der Mathematisch-Naturwissenschaftlichen Classe der Kaiserlichen Akademie der Wissenschaften, Wien | Single copies, 2s. 4d. to 7s. 6d. | Carl Gerold's Sohn, Barbaragasse 2, Vienna |
| Amer. Acad., Mem. | Memoirs of the American Academy of Arts and Sciences | — | American Academy of Arts and Sciences, 101–2, Beacon Street, Boston. |
| Amer. Acad., Proc. | Proceedings of the American Academy of Arts and Sciences | — | Published by the Academy (as above) |
| *American Architect | The American Architect | — | — |
| Amer. Assoc., Proc. | Proceedings of the American Association for the Advancement of Science | — | Amer. Assoc. for the Advancement of Science, Salem, Mass., U.S.A. |
| Amer. Electn. | American Electrician | Single copy, 10 cents; $1 per annum | 120, Liberty Street, New York. |
| Amer. Inst. Elect. Engin., Trans. | Transactions of the American Institute of Electrical Engineers | Single copy, 50 cents; $5 per annum | Published by the Institute, 26, Cortlandt Street, New York |
| Amer. Journ. Sci. | American Journal of Science | $6.40 per ann., post free | Tuttle, Morehouse & Taylor, 125, Temple Street, New Haven, Connecticut, U.S.A. |
| Amer. Phys. Soc., Bull | Bulletin of the American Physical Society | — | — |
| Amer. St. Rly. Assoc. | Report of the American Street Railway Association | — | 2020 State Street, Chicago |
| Ann. d. Physik | Annalen der Physik | 38 marks per annum | J. A. Barth, Rossplatz 17, Leipzig |

| Abbreviation. | Full Title. | Price. | Publishers, or Agents. |
|---|---|---|---|
| Annal. Chim. Phys. | Annales de Chimie et de Physique | 36 francs per annum | Gauthier-Villars, Quai des Grands-Augustins 55, Paris |
| Annal. Scientifiques de l'Univ. de Jassy | Annales Scientifiques de l'Université de Jassy | 10 francs per volume | —— |
| Archiv Math. Phys. | Archiv der Mathematik und Physik | 12 marks per annum | B. C. Teubner, Poststr. 3, Leipzig |
| Archiv Post Tele. | Archiv für Post und Telegraphie | —— | Published by the Reichs-Postamt, Berlin |
| Archives d'Él. Médicale | Archives d'Électricité Médicale | 22 francs per annum | O. Doin, Place de l'Odéon 8, Paris |
| Archives Néerlandaises | Archives Néerlandaises des Sciences Exactes et Naturelles | 6 fl. per volume | Martinus Nijhoff, La Haye, Holland |
| Archives des Sciences | Archives des Sciences Physiques et Naturelles, Genève | Single copy, 2.50 francs; 25 francs per annum | Bureau des Archives, 18 Pélisserie, Geneva |
| Assoc. Ing. Él. Liège, Bull. | Bulletin de l'Association des Ingénieurs-Électriciens, Liège | 20 francs per annum | Gauthier-Villars, Quai des Grands Augustins 55, Paris |
| Assoc. Suisse Élect., Ann. | Annuaire de l'Association Suisse des Électriciens | —— | J. Bollmann, Zurich, Switzerland |
| Astrophys. Journ. | Astrophysical Journal | Single copy, 50 cents; 18s. per annum | The University of Chicago Press, Chicago, and W. Wesley & Son, 28, Essex Street, Strand, W.C. |
| Automotor Journ. | Automotor and Horseless Vehicle Journal | Single copy, 6d.; 7s. per annum | F. King & Co., Ltd., 62, St. Martin's Lane, London, W.C. |
| Bureau des Longitudes, Ann. | Annuaire publié par le Bureau des Longitudes | 1 franc 50 centimes | Gauthier-Villars, Quai des Grands Augustins 55, Paris |
| Cambridge Phil. Soc., Proc. | Proceedings of the Cambridge Philosophical Society | Single copy, 2s. 6d. | C. J. Clay & Sons, Ave Maria Lane, E.C. |
| Cambridge Phil. Soc., Trans. | Transactions of the Cambridge Philosophical Society | Single copy, 7s. 6d. | C. J. Clay & Sons, Ave Maria Lane, E.C. |
| Canad. Elect. News | Canadian Electrical News | Single copy, 10 cents; $1 per annum | C. H. Mortimer Publishing Co., Ltd., Confederation Life Buildings, Toronto, Canada |
| Canad. Inst., Proc. | Proceedings of the Canadian Institute | —— | Arbuthnot Bros. & Co., Lombard Street, Toronto, Canada |
| Cassier | Cassier's Magazine | Single copy, 1s.; 12s. per annum, post free | 33, Bedford Street, Strand, W.C. |
| Centralblatt Accumulatoren | Centralblatt für Accumulatoren- und Elementenkunde | 3 marks 50 pf. per quarter | W. Knapp, Halle a. S., Germany |

LIST OF JOURNALS—*continued.*

| Abbreviation. | Full Title. | Price. | Publishers, or Agents. |
|---|---|---|---|
| Chem. News | Chemical News and Journal of Science | Single copy, 4½d. post free | E. J. Davey, 6 & 7, Creed Lane, Ludgate Hill, E.C. |
| Chem. Soc., Journ. | Journal of the Chemical Society | —— | Gurney & Jackson, 1, Paternoster Row, E.C. |
| Chem. Soc., Proc. | Proceedings of the Chemical Society | —— | Gurney & Jackson, 1, Paternoster Row, E.C. |
| Comptes Rendus | Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences | 34 francs per annum | Gauthier - Villars, Quai des Grands Augustins 55, Paris |
| Deutsch. Phys. Gesell., Verh. | Verhandlungen der Deutschen Physikalischen Gesellschaft | 4 marks per annum | —— |
| Écl. Électr. | L'Éclairage Electrique | 60 fr. per ann., post free | G. Carré & C. Naud, 3, Rue Racine, Paris |
| Elect. Engin. | Electrical Engineer | Single copy, 3d. ; 13s. per annum, post free | 139 & 140, Salisbury Court, Fleet Street, E.C. |
| Elect. Rev. | Electrical Review (London) | Single copy, 4d. ; 19s. 6d. per annum, post free | Alabaster, Gatehouse & Co., 4, Ludgate Hill, E.C. |
| Elect. Rev. N.Y. | Electrical Review (New York) | Single copy, 10 cents ; $5 per annum | Times Buildings, 41, Park Row, New York, & H. W. Hall, 42, Old Broad St., London, E.C. |
| Elect. World and Engineer | Electrical World and Engineer | Single copy, 10 cents ; $6 per annum | 120, Liberty Street, New York, & Hastings House, Norfolk Street, Strand, London |
| Electrician | The Electrician | Single copy, 6d. ; 26s. per annum | Salisbury Court, Fleet Street, E.C. |
| Électricien | L'Électricien | Single copy, 50 centimes ; 25 francs per annum | L. de Soye et Fils, Rue des Fossés-St.-Jacques 18, Paris |
| Electricity, N.Y. | Electricity (New York) | Single copy, 10 cents ; $4.50 per annum | 136, Liberty Street, New York |
| Electro-Chemist | The Electro-Chemist and Metallurgist | Single copy, 6d. ; 7s. 6d. per annum, post free | Sherard Cowper-Coles & Co., Ltd., 82, Victoria Street, Westminster |
| Elekt. Runds. | Elektrotechnische Rundschau | 12 marks per annum | 10, Kaiserstrasse, Frankfurt a. M., Germany |
| Elektrochem. Zeitschr. | Elektrochemische Zeitschrift | 18 marks 40 pfg. per ann. | M. Krayn, 86, Steglitzerstrasse, Berlin, W. |
| Elektrotechn. Zeitschr. | Elektrotechnische Zeitschrift | 25s. per annum | J. Springer, 24, Monbijouplatz 3, Berlin |
| Elettricità, Milan | L'Elettricità (Milan) | Single copy, 25 centesimi ; 18 lire per annum | Via Cusani 11, Milano, Italy |
| Engineer | The Engineer (London) | Single copy, 6½d. post free ; £1 9s. per ann., post free | 33, Norfolk Street, Strand, W.C. |
| Engineering | Engineering | Single copy, 6½d. post free ; £1 9s. 2d. per annum, post free | 35 & 36, Bedford Street, Strand, W.C. |

| Abbreviation. | Full Title. | Price. | Publishers, or Agents. |
|---|---|---|---|
| Eng. Club, Phil., Proc. | Proceedings of the Engineers' Club of Philadelphia | $2 per volume | 1122, Girard Street, Philadelphia |
| Eng. Mag. | The Engineering Magazine | Single copy, 1s.; 12s. 6d. per annum, post free | 222–225, Strand, London, W.C. |
| Eng. News | Engineering News | Single copy, 15 cents; $6.31 per annum | 220, Broadway, New York, and Effingham House, 1, Arundel Street, Strand, London |
| Eng. Record | The Engineering Record | Single copy, 12 cents; $6 per annum | 100, William Street, New York |
| Feilden | Feilden's Magazine | Single copy, 1s.; 12s. 6d. per annum, post free | Temple Chambers, Embankment, London, E.C. |
| Frank. Inst., Journ. | Journal of the Franklin Institute | Single copy, 50 cents; $5 per annum | Franklin Institute, Philadelphia |
| Génie Civil | Génie Civil | Single copy, 1 franc; 45 francs per annum | Rue de la Chaussée d'Antin 6, Paris |
| Gesell. Wiss. Göttingen, Nachr. Math.-Phys. Klasse | Nachrichten der Gesellschaft der Wissenschaften zu Göttingen, Mathematisch-physikalische Klasse | — | Lüder Horstmann, Göttingen, Germany |
| Horseless Age | The Horseless Age | Single copy, 10 cents; $4 per annum | E. P. Ingersoll, 150, Nassau St., New York |
| Ind. Élect. | L'Industrie Électrique | Single copy, 1 franc; 26 francs per annum | A. Lahure, 9, Rue de Fleurus, Paris |
| Ind. Electrochim. | L'Industrie Électrochimique | Single copy, 60 centimes; 8 francs per annum | H. Becker, 5, Rue Guy-Patin, Paris |
| Inst. Civ. Engin., Proc. | Proceedings of the Institution of Civil Engineers | — | Published by the Institution, Great George Street, London, S.W. |
| Inst. Elect. Engin., Journ. | Journal of the Institution of Electrical Engineers | Single copy varies from 1s. 6d. to 7s. 6d. | E. & F. N. Spon, 125, Strand, London, W.C. |
| Inst. Engin. and Shipbuilders, Trans. | Transactions of the Institution of Engineers and Shipbuilders in Scotland | — | Published by the Institution, 207, Bath Street, Glasgow |
| Inst. Mech. Engin., Proc. | Proceedings of the Institution of Mechanical Engineers | — | Published by the Institution, Storey's Gate, St. James's Park, London, S.W. |
| Inst. Naval Architects, Trans. | Transactions of the Institution of Naval Architects | — | H. Sotheran & Co., 140, Strand, London, W.C. |
| International Electrical Congress at Paris, Reports | Rapports et Procès Verbaux présentés au Congrès International d' Électricité, Paris, 1900 | — | Gauthier-Villars, Quai des Grands-Augustins 55, Paris |

LIST OF JOURNALS—*continued.*

| ABBREVIATION. | FULL TITLE. | PRICE. | PUBLISHERS, OR AGENTS. |
|---|---|---|---|
| International Physical Congress at Paris, Reports | Rapports présentés au Congrès International de Physique, Paris, 1900 | 40 francs | Gauthier-Villars, Quai des Grands-Augustins 55, Paris |
| International Tramway Congress at Paris, Comptes Rendus | Comptes Rendus detaillés du Congrès International des Tramways, Paris, 1900, organisé sous les auspices de l'Union Internationale Permanente de Tramways | — | Published by the Society; Secretary, F. Nonnenberg, 85, Rue Potagère, Brussels |
| Journal of Electricity, S. F. | Journal of Electricity, Power, and Gas (San Francisco) | Single copy, 10 cents | 315, Cherry Street, San Francisco, Cal., U.S.A. |
| Journ. Phys. Chem. | Journal of Physical Chemistry | $4 per annum | Published at Cornell University, U.S.A. |
| Journ. de Physique | Journal de Physique | 15 fr. per ann., post free | 11, Rue Rataud, Paris |
| Journ. Télégraph. | Journal Télégraphique | Single copy, 50 centimes; 5 francs per annum | Bureau International des Administrations Télégraphiques, Berne |
| Lightning | Lightning | Single copy, 2d.; 10s. 6d. per annum | 8, Bream's Buildings, Chancery Lane, W.C. |
| Locomotion Automobile | La Locomotion Automobile | Single copy, 5 centimes; 20 francs per annum | Place de la Madeleine, Rue Chauveau-Lagarde 4, Paris |
| Manchester Lit. and Phil. Soc., Mem. | Memoirs of the Manchester Literary and Philosophical Society | Single copy, 2s. | 36, George Street, Manchester |
| Mech. Eng. | The Mechanical Engineer | Single copy, 6d.; 20s. per annum, post free | 53, New Bailey Street, Manchester |
| Metallographist | The Mettallographist | Single copy, 80 cents; $3 per annum. | Boston Testing Laboratories, 446, Tremont Street, Boston, U.S.A. |
| Monthly Weather Rev. | The Monthly Weather Review | Single copy, 10 cents | Published by the U.S. Weather Bureau, Washington |
| N. Cimento | Nuovo Cimento | 20 lire per annum | A. Lavacchini, Via Sino Capponi 3, Firenze |
| Nature | Nature | Single copy, 6d. | Macmillan & Co., Ltd., St. Martin's Street, London, W.C. |
| Nova Scotian Inst., Trans. | Transactions of the Nova Scotian Institute of Science | — | Published by the Institute, Halifax, Nova Scotia |
| Phil. Mag. | London, Edinburgh, & Dublin Philosophical Magazine | 2s. 6d. per month, occasionally 5s. | Taylor & Francis, Red Lion Court, Fleet Street, E.C. |
| Phys. Rev. | Physical Review | Single copy, 50 cents; $4 per annum | Macmillan & Co., Ltd., London and New York |

| Abbreviation. | Full Title. | Price. | Publishers, or Agents. |
|---|---|---|---|
| Phys. Soc., Proc. | Proceedings of the Physical Society of London | — | Taylor & Francis, Red Lion Court, Fleet Street, E.C. |
| Phys. Zeitschr. | Physikalische Zeitschrift | 5 Mk. per quarter, or 25 Mk. per ann., post free | S. Hirzel, Königstrasse 2, Leipzig |
| Preuss. Akad. Wiss. Berlin, Sitzb. | Sitzungsberichte der Preussischen Akademie der Wissenschaften zu Berlin | 12 marks per annum | Königliche Akademie der Wissenschaften, Berlin |
| Railroad Gazette | Railroad Gazette | $6.08 per ann., post free | 32, Park Place, New York |
| Revue de l'El, Berne | Revue de L'Electricité, Berne | 8 francs per annum | Place de l'Ours 29, Berne |
| Revue Int. d'Électrothérapie | Revue Internationale d'Électrothérapie et de Radiothérapie | Single copy, 50 centimes; 6 francs per annum | 3, Place du Théâtre Français, Paris |
| Revue Scientif. | Revue Scientifique | Single copy, 60 centimes; 35 francs per annum | 19, Rue des Saints Peres, Paris, and T. F. Unwin, 11, Paternoster Square, E.C. |
| Rivista Sci.-Industriale | Rivista Scientifico-Industriale | 12 lire per annum | 2, Lungarno della Zecca, Firenze, Italy |
| Roy. Dublin Soc., Proc. | Scientific Proceedings of the Royal Dublin Society | Single copy, 6d. | Published by the Society, Leinster House, Dublin |
| Roy. Dublin Soc., Trans. | Transactions of the Royal Dublin Society | — | Published by the Society, Leinster House, Dublin |
| Roy. Inst., Proc. | Proceedings of the Royal Institution of Great Britain | — | Published by the Institution, 21, Albemarle Street, W. |
| Roy. Soc. Canada, Proc. | Proceedings of the Royal Society of Canada | — | — |
| Roy. Soc. N. S. Wales, Journ. and Proc. | Journal and Proceedings of the Royal Society of New South Wales | — | 5, Elizabeth Street, Sydney, New South Wales |
| Roy. Soc., Phil. Trans. | Philosophical Transactions of the Royal Society of London | Varies for separate papers, from 1s. | Dulau & Co., 37, Soho Square, London, W. |
| Roy. Soc., Proc. | Proceedings of the Royal Society of London | Varies for separate parts, from 1s. 6d. | Dulau & Co., 37, Soho Square, London, W. |
| Roy. Soc. Queensland, Proc. | Proceedings of the Royal Society of Queensland | — | Pole & Co., 95, Elizabeth Street, Brisbane |
| Roy. Soc. Victoria, Proc. | Proceedings of the Royal Society of Victoria | — | Published by the Society, Melbourne. London Agents: Williams & Norgate, 14, Henrietta Street, Covent Garden, W.C. |
| *Russian Electrotechnical Courier | Russian Electrotechnical Courier | — | — |
| Schweizerische Blätter für Elektrotechnik | Schweizerische Blätter für Elektrotechnik, Berne | 8 francs per annum | Place de l'Ours 29, Berne |

LIST OF JOURNALS—*continued.*

| ABBREVIATION. | FULL TITLE. | PRICE. | PUBLISHERS, OR AGENTS. |
|---|---|---|---|
| Science | Science | Single copy, 15 cents | Macmillan & Co., 66, Fifth Avenue, New York |
| Scientific American | Scientific American | Single copy, 8 cents; 16s. 5d. per annum, post free | 361, Broadway, New York |
| Scientific Australian | Scientific Australian | 2s. 6d. per annum, post free | Turner & Henderson, 16–18, Hunter Street, Adelaide |
| Soc. Arts, Journ. | Journal of the Society of Arts | Single copy, 6d. | G. Bell & Sons, York St., Covent Garden, W.C. |
| Soc. Belge Elect., Bull. | Bulletin de la Société Belge d'Électriciens | Single copy, 2 francs; 20 frs. per ann., post free | 54, Rue Froissart, Brussels |
| Soc. Chem. Ind., Journ. | Journal of the Society of Chemical Industry | 30s. per annum | Published by the Society, 9, Bridge Street, Westminster, S.W. |
| Soc. Franç. Phys., Bull | Bulletin de la Société Française de Physique | — | Published by the Society, 44, Rue de Rennes, Paris |
| Soc. Franç. Phys., Séances | Séances de la Société Française de Physique | — | Published by the Society (as above) |
| Soc. Imp. Nat. Moscou, Bull. | Bulletin de la Société Impériale des Naturalistes de Moscou | — | J. N. Kouchnereff & Co., Pimenowskaia, Moscou |
| Soc. Int. Élect.. Bull. | Bulletin de la Société Internationale des Électriciens | Single copy, 2.50 francs; 27 francs per annum | Gauthier - Villars, Quai des Grands-Augustins 55, Paris |
| Street Rly. Journ. | Street Railway Journal | Single copy, 50 cents; $6 per annum, post free | A. C. Shaw, Hastings House, Norfolk Street, Strand, W.C. |
| Street Rly. Rev. | Street Railway Review | Single copy, 30 cents; $4 per annum | Windsor and Kenfield Publishing Co., Monon Building, Chicago |
| Tech. Versuch. Berlin, Mitth. | Mittheilungen der Technischen Versuchanstalten zu Berlin | 12 marks per annum | J. Springer, 24, Monbijouplatz 3, Berlin |
| *Technology Quarterly | Technology Quarterly | — | — |
| Terrestrial Magnetism | Terrestrial Magnetism and Atmospheric Electricity | Single copy, 75 cents; $2.75 per annum | Johns Hopkins Press, Baltimore, U.S.A. |
| Tram. Rly. World | Tramway and Railway World | Single copy, 1s. post free | Amberley House, Norfolk Street, W.C. |
| U.S. Weather Bureau, Bull. | Bulletin of the United States Weather Bureau | — | Published by the U.S. Weather Bureau, Washington |
| Union Int. Permanente de Tramways, Questionnaire | Congrès International des Tramways, Paris, 1900, organisé sous les auspices de l'Union Internationale Permanente de Tramways. Réponses au Questionnaire | — | Published by the Society; Secretary, F. Nonnenberg, 85, Rue Potagère, Brussels. |

| Abbreviation. | Full Title. | Price. | Publishers, or Agents. |
|---|---|---|---|
| West. Electn. | Western Electrican (Chicago) | Single copy, 10 cents; $3 per annum | 510, Marquette Buildings, Chicago, and 44, Fleet Street, London, E.C. |
| Western Soc. Engin., Journ. | Journal of the Western Society of Engineers | $2 per volume of six numbers | Published by the Society, 1734–41, Monadnock Block, Chicago |
| Zeitschr. Elektrochem. | Zeitschrift für Elektrochemie | 4 marks per quarter | W. Knapp, Halle a. S., Germany |
| Zeitschr. Elektrotechn., Wien | Zeitschrift für Elektrotechnik (Wien) | 30 fr. per ann., post free | Nibelungengasse 7, Vienna |
| Zeitschr. Instrumentenk. | Zeitschrift für Instrumentenkunde | 20 marks per annum | J. Springer, 24, Monbijouplatz 3, Berlin |
| Zeitschr. Instrumentenk., Beib. | Beiblatt zur Zeitschrift für Instrumentenkunde | | |
| Zeitschr. Phys. Chem. | Zeitschrift für Physikalische Chemie | Single copy about 4s. 3d. | W. Engelmann, Leipzig |
| Zeitschr. Vereines Deutsch. Ing. | Zeitschrift des Vereines Deutscher Ingenieure | Single copy, 1 mark 40 pfg.; 32 marks per annum, post free | J. Springer, Monbijouplatz 3, Berlin |

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# *ERRATA.*

Abstract No. 102, line 13: *for* increases more slowly, *read* decreases more slowly.
No. 593, line 1: *for* F. H. Minshall, *read* T. H. Minshall.
No. 627, line 13 from end: *for* 3·69Q, *read* 3·68Q.
No. 757, line 1: *for* H. Halshof, *read* H. Hulshof.
No. 853, line 2 from end: *for* special, *read* spiral.
No. 1096, line 2 from end: *for* emit, *read* exert.
No. 1096, line 13 from end: *for* tested *read* treated.
No. 1292, line 2 from bottom: *for* $\kappa T/PV$, *read* $kT/PV$.
No. 1355, line 6: *for* $Cu_3.COBr$, *read* $CH_3.COBr$.
No. 1395, line 1: *for* G. Pierard, *read* E. Pierard.
No. 1443, line 11: *for* 9-inch, *read* quick.
No. 1466, line 2: *for* Electrician, *read* Électricien.
No. 1641, line 6 from bottom: *for* $K - 1 = \Sigma \frac{Ne^2}{4\pi m}\lambda^2$, *read* $K - 1 = \Sigma \frac{Ne^2}{\pi m}\lambda^2$.
(Erratum by Author after publication of original paper.)
No. 1741, line 3: *for* May 20, *read* May 29.
No. 1807, line 1: *for* J. Jones, *read* J. Jonas.
No. 1909, line 8: *for* source at $T_2$, *read* source at $T_1$.
No. 1968, line 7: *for* 600 HCl, *read* N/600 HCl.